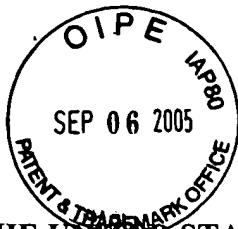


S/N 09/945,507



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant:	Leonard Forbes et al.	Examiner:	Son T. Dinh
Serial No.:	09/945,507	Group Art Unit:	2824
Filed:	August 30, 2001	Docket:	1303.014US1
Title:	FLASH MEMORY WITH LOW TUNNEL BARRIER INTERPOLY INSULATORS		

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**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

MS RCE  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In compliance with the duty imposed by 37 C.F.R. § 1.56, and in accordance with 37 C.F.R. §§ 1.97 *et. seq.*, the enclosed materials are brought to the attention of the Examiner for consideration in connection with the above-identified patent application. Applicants respectfully request that this Supplemental Information Disclosure Statement be entered and the documents listed on the attached Form 1449 be considered by the Examiner and made of record. Pursuant to the provisions of MPEP 609, Applicants request that a copy of the 1449 form, initialed as being considered by the Examiner, be returned to the Applicants with the next official communication.

Pursuant to 37 C.F.R. §1.97(b), it is believed that no fee or statement is required with the Supplemental Information Disclosure Statement. However, if an Office Action on the merits has been mailed, the Commissioner is hereby authorized to charge the required fees to Deposit Account No. 19-0743 in order to have this Supplemental Information Disclosure Statement considered.

The Examiner is invited to contact the Applicants' Representative at the below-listed telephone number if there are any questions regarding this communication.

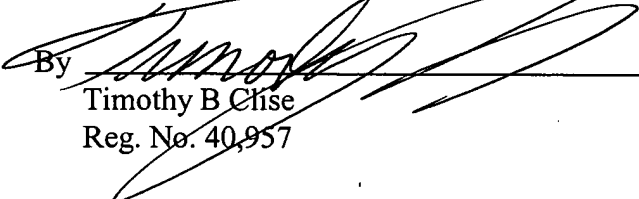
Pursuant to 37 C.F.R. 1.98(a)(2), Applicant believes that copies of cited U.S. Patents and Published Applications are no longer required to be provided to the Office. Notification of this change was provided in the United States Patent and Trademark Office OG Notices dated October 12, 2004. Thus, Applicant has not included copies of any US Patents or Published Applications cited with this submission. Should the Office require copies to be provided, Applicant respectfully requests that notice of such requirement be directed to Applicant's below-signed representative. Applicant acknowledges the requirement to submit copies of foreign patent documents and non-patent literature in accordance with 37 C.F.R. 1.98(a)(2).

Respectfully submitted,

LEONARD FORBES ET AL.

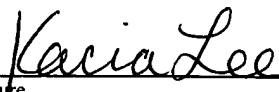
By their Representatives,

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938  
Minneapolis, MN 55402  
(612) 349-9587

Date 2 Sept '05 By   
Timothy B Clise  
Reg. No. 40,957

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: MS RCE, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on this 2 day of September, 2005.

Name KACIA LEE

  
Signature

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)



Complete if Known

Application Number	09/945,507
Filing Date	August 30, 2001
First Named Inventor	Forbes, Leonard
Group Art Unit	2824
Examiner Name	Dinh, Son

Sheet 1 of 2

Attorney Docket No: 1303.014US1

**US PATENT DOCUMENTS**

Examiner Initial *	USP Document Number	Publication Date	Name of Patentee or Applicant of cited Document	Filing Date If Appropriate
	US-2002/0192974	12/19/2002	Ahn, Kie Y., et al.	06/13/2001
	US-2002/0008324-A1	01/24/2002	Shinkawata, H	01/23/2001
	US-2003/0045078-A1	03/06/2003	Ahn, Kie Y., et al.	08/30/2004
	US-2003/0119246-A1	06/26/2003	Ahn, Kie Y.	12/20/2001
	US-2003/0227033-A1	12/11/2003	Ahn, Kie Y., et al.	06/05/2002
	US-2003/0228747	12/11/2003	Ahn, Kie Y., et al.	06/05/2002
	US-2004/0023461-A1	02/05/2004	Ahn, Kie Y., et al.	07/30/2002
	US-2004/0038554-A1	02/26/2004	Ahn, Kie Y.	08/21/2002
	US-2004/0043541-A1	03/04/2004	Ahn, Kie Y.	08/29/2002
	US-2004/0043569-A1	03/04/2004	Ahn, Kie Y.	08/28/2002
	US-2004/0110348-A1	06/10/2004	Ahn, Kie Y., et al.	12/04/2002
	US-2004/0110391-A1	06/10/2004	Ahn, K. Y., et al.	12/04/2002
	US-2004/0175882-A1	09/09/2004	Ahn, Kie Y., et al.	03/04/2003
	US-2004/0214399-A1	10/28/2004	Ahn, K. Y., et al.	04/22/2003
	US-2004/0262700-A1	12/30/2004	Ahn, K. Y., et al.	06/24/2003
	US-2005/0020017-A1	01/27/2005	Ahn, K. Y., et al.	06/24/2003
	US-2005/0054165-A1	03/10/2005	Ahn, K. Y., et al.	03/31/2003
	US-2005/0077519-A1	04/14/2005	Ahn, Kie , et al.	10/10/2003
	US-2005/0169054-A1	08/04/2005	Forbes, L.	02/22/2005
	US-4,556,975	12/03/1985	Smith, T. B., et al.	02/07/1983
	US-4,672,240	06/09/1987	Smith, T. B., et al.	08/29/1985
	US-5,153,880	10/06/1992	Owen, W. H., et al.	03/12/1990
	US-5,353,431	10/04/1994	Doyle, P. F., et al.	02/08/1994
	US-5,618,761	04/08/1997	Eguchi, K. , et al.	09/11/1995
	US-5,619,051	04/08/1997	Endo, N.	06/23/1995
	US-6,495,436	12/17/2002	Ahn, Kie Y., et al.	02/09/2001
	US-6,504,207	01/07/2003	Chen, Bomy A., et al.	06/30/2000
	US-6,514,828	02/04/2003	Ahn, Kie Y., et al.	04/20/2001
	US-6,534,420	03/18/2003	Ahn, Kie Y., et al.	07/18/2001
	US-6,574,143	06/03/2003	Nakazato, K.	12/08/2000
	US-6,767,795	07/27/2004	Ahn, K. , et al.	01/17/2002
	US-6,790,791	09/14/2004	Ahn, Kie Y., et al.	08/15/2002
	US-6,844,203	01/18/2005	Ahn, K. Y., et al.	08/30/2001
	US-6,884,739	04/26/2005	Ahn, K. Y., et al.	08/15/2002
	US-6,893,984	05/17/2005	Ahn, K. Y., et al.	02/20/2002
	US-6,900,122	05/31/2005	Ahn, K. Y., et al.	12/20/2001

**EXAMINER**

**DATE CONSIDERED**

Substitute Disclosure Statement Form (PTO-1449)

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. Applicant's unique citation designation number (optional) 2 Applicant is to place a check mark here if English language Translation is attached

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)	<i>Complete if Known</i>	
	<b>Application Number</b>	09/945,507
	<b>Filing Date</b>	August 30, 2001
	<b>First Named Inventor</b>	Forbes, Leonard
	<b>Group Art Unit</b>	2824
	<b>Examiner Name</b>	Dinh, Son
Sheet 2 of 2	Attorney Docket No: 1303.014US1	

OTHER DOCUMENTS -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		AHN, KIE Y., et al., "ALD OF AMORPHOUS LANTHANIDE DOPED TIOX FILMS", U.S. Application Serial No. 11/092,072; filed March 29, 2005 (Atty. Dkt. No. 1303.135US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED HAFNIUM TANTALUM OXIDE DIELECTRICS", U.S. Application Serial No. 11/029,757; filed January 5, 2005 (Atty. Dkt. No. 1303.127US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED LANTHANUM ALUMINUM OXIDE DIELECTRIC LAYER", U.S. Application Serial No. 10/930,167; filed August 31, 2004 (Atty. Dkt. No. 1303.122US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED LANTHANUM HAFNIUM OXIDE DIELECTRICS", U.S. Application Serial No. 11/010,529; filed December 13, 2004 (Atty. Dkt. No. 1303.126US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITED TITANIUM ALUMINUM OXIDE FILMS", U.S. Application Serial No. 10/931,533; filed August 31, 2004 (Atty. Dkt. No. 1303.119US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITION OF Hf3N4/HfO2 FILMS AS GATE DIELECTRICS", U.S. Application Serial No. 11/063,717; filed February 23, 2005 (Atty. Dkt. No. 1303.134US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITION OF ZIRCONIUM-DOPED TANTALUM OXIDE FILMS", U.S. Application Serial No. 10/909,959; filed August 2, 2004 (Atty. Dkt. No. 1303.114US1).	
		AHN, KIE Y., et al., "ATOMIC LAYER DEPOSITION OF Zr3N4/ZrO2 FILMS AS GATE DIELECTRICS", U.S. Application Serial No. 11/058,563; filed February 15, 2005 (Atty. Dkt. No. 1303.133US1).	
		AHN, KIE Y., et al., "HYBRID ALD-CVD OF PrXOY/ZrO2 FILMS AS GATE DIELECTRICS", U.S. Application Serial No. 11/010,766; filed December 13, 2004 (Atty. Dkt. No. 1303.129US1).	
		AHN, KIE Y., et al., "RUTHENIUM GATE FOR A LANTHANIDE OXIDE DIELECTRIC LAYER", U.S. Application Serial No. 10/926,812; filed August 26, 2004 (Atty. Dkt. No. 1303.121US1).	

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